



www.theorylight.com



Theorylight

Smart Grouped Sensor

Support Single Color Temperature Non-Dimmable LED Light

TLSD34-TLZ-SW-MID

TLSD34-TLZ-SW-PID



Zigbee Mesh
Network Control



MotionSensor



Daylight Sensor



Theorylight
Remote Control



Zoning & Grouping



ON/OFF

CE

RoHS

Applications

- Conference room
- Classrooms
- Reception area
- Private office
- Rest area
- Staircase
- Open office
- Rest Room
- Restaurant

Features

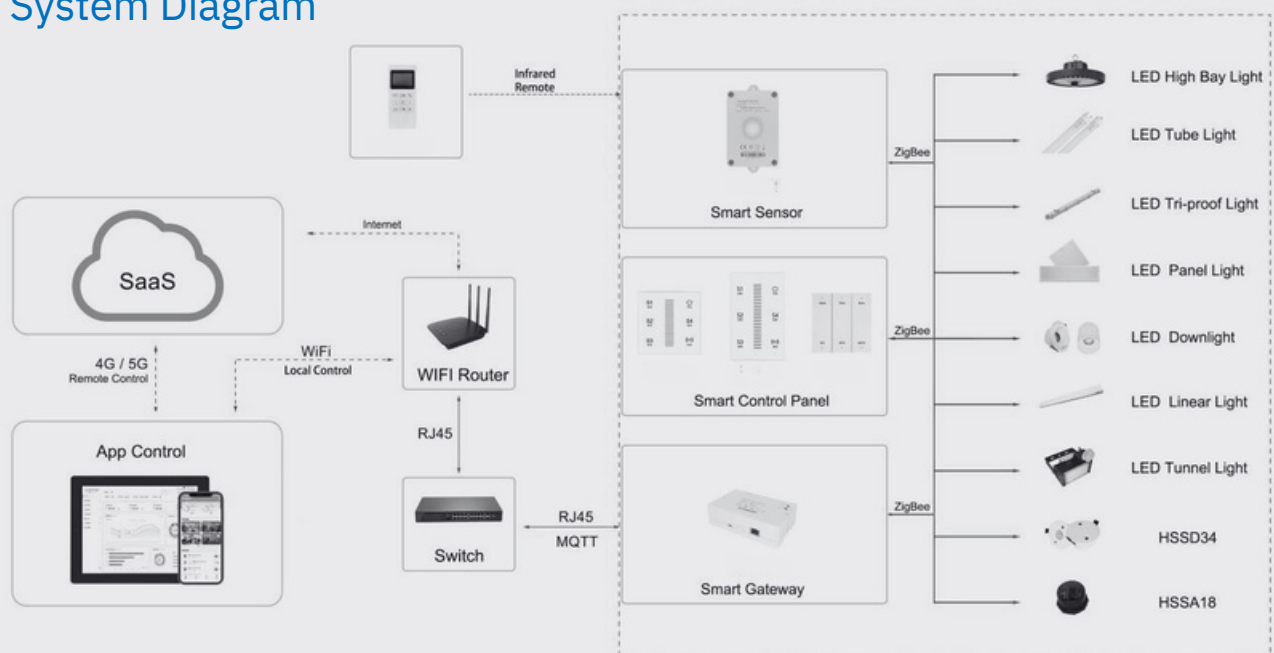
- TLSD34-TLZ-SW is a on/off control sensor.
- Input voltage 200-240Vac.
- Built-in infrared illumination sensor.
- Easy Grouping without Gateway via Theorylight Remote Control.
- ZigBee mesh network smart controls.
- Support OTA upgrade.

Product Function

- The sensor is separately bound to the lamp or lamp group connected to the dimming controller/power supply. When the sensor senses a person, the brightness of the bound lamp or lamp group changes to the induced brightness; When the sensor does not sense a person, the brightness of the bound luminaire or luminaire group changes to non-induced brightness.
- Multiple sensors are created as a group and bound to lamp group connected to the ZigBee controller/power supply. When any sensor detects a person, the luminance of all the luminance in all groups changes to induced luminance; When no sensor can sense a person, the luminance in all groups will change to non-induced luminance.



System Diagram



Product Data

Protection class IEC	IP 20
Warranty	5 Years Warranty
Certificate	RoTL CE ,

Application Conditions

Operating Temperature	-20°C ~55 °C
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Controls and Dimming

Dimmable	NO Dimmable
Intelligent Control	ZigBee / Infrared Daylight Sensor / Microwave Motion Sensor

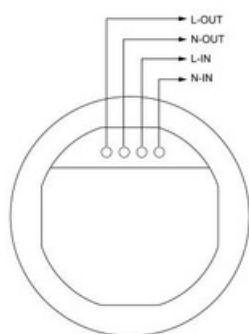
Operating and Electrical

Input voltage	200-240Vac
Output Voltage	200-240Vac
Max. Current	3A
Wireless Frequency	2.4GHz 2.4GHz ISM/5.8GHz ±75 MHz
Support frequency band	ISM Band

Mechanical and Housing

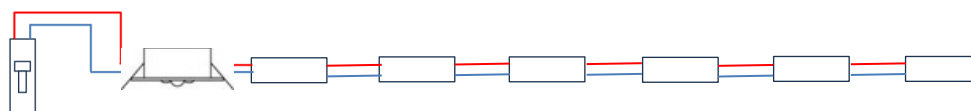
Structure Material	PC V0
Fixture Color	White
Mounting Option	Embedded
Opening size	75mm

Wiring Diagram

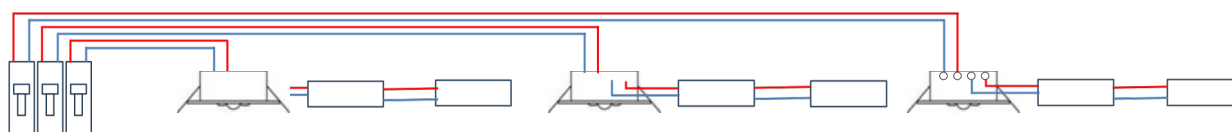


Wire harness		Description
AC In	L	Input AC200 –240V Firewire
	N	Input AC200 –240V Neutral line
AC Out	L	Output AC200 –240V Firewire
	N	Output AC200 –240V Neutral line

Please turn off the power when wiring



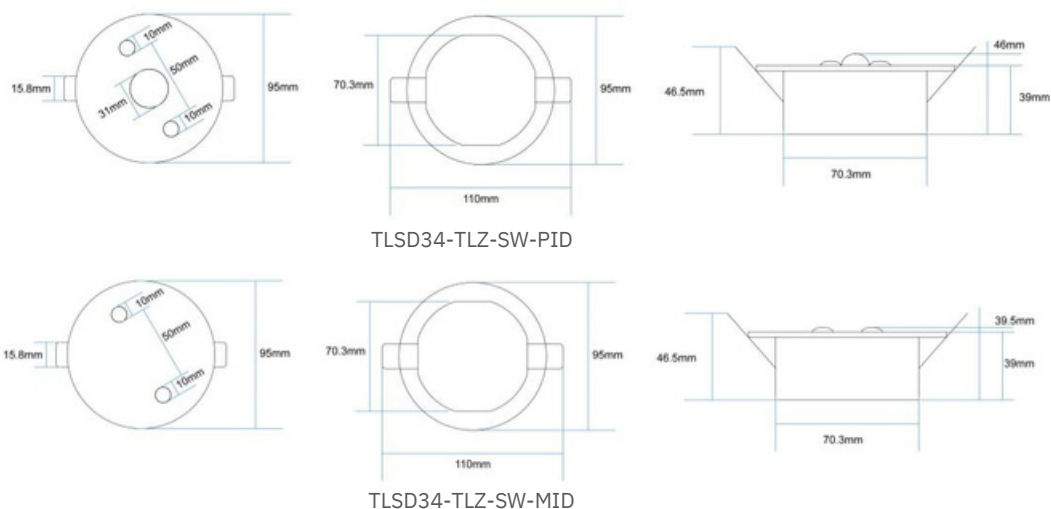
Single Sensor Control Wiring Diagram



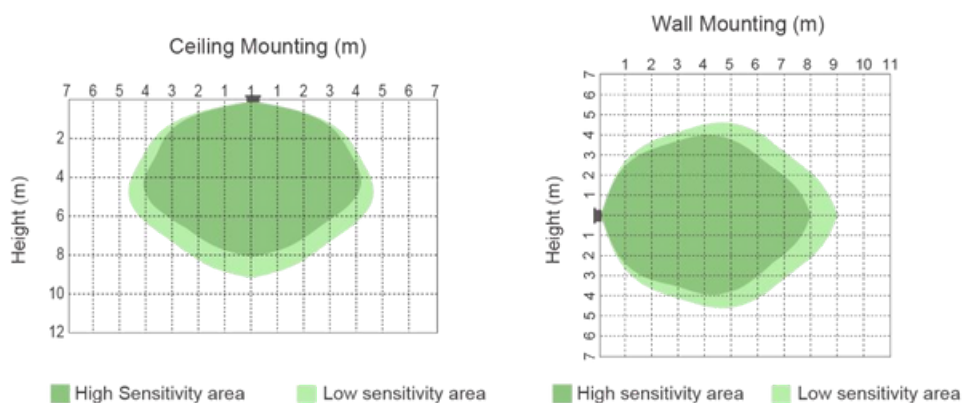
Multiple Sensor Group Control Wiring Diagram

Drawing

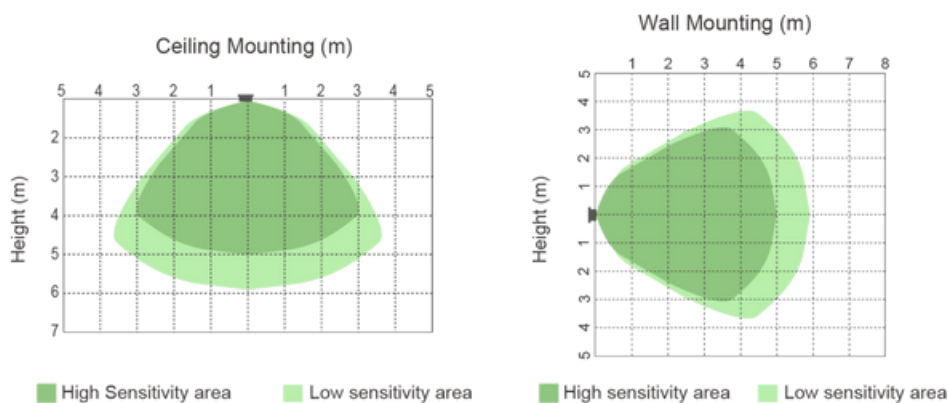
Until: mm



Detection Range



TLSD34-TLZ-SW-MID



TLSD34-TLZ-SW-PID

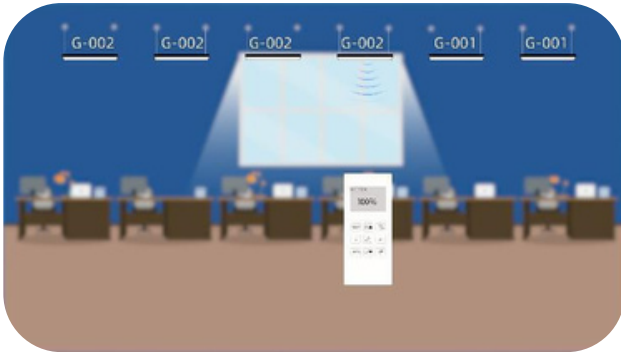
Product Parameter

Model	Sensor	input voltage	Control Distance	Wireless communication distance	Maximum installation height	Maximum detection range	Detection angle	Illumination range
TLSD34-TLZ-SW-MID-OTA-3.0	MID: Microwave motion sensor + Infrared Daylight sensor	200-240Vac	10m	30m	8m	10m	120°	0-600Lux
TLSD34-TLZ-SW-PID-OTA-3.0	PID: PIR motion sensor + Infrared Daylight sensor				6m	5m	≤75°	

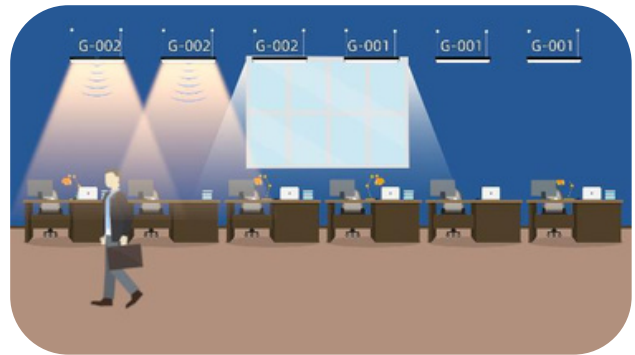
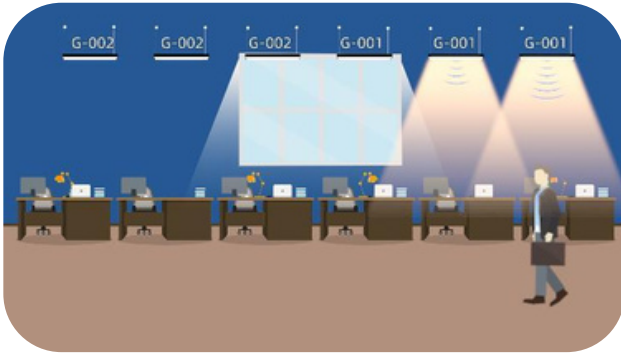
Package

M odel	Net Weight(g)	Gross Weight(g)	Package size(mm)	Package
TLSD34-TLZ-SW-MID-OTA-3.0	110g	141g	116*50.5*98	1Pcs/Box
TLSD34-TLZ-SW-PID-OTA-3.0	110g	141g	116*50.5*98	1Pcs/Box

Typical Working Scenarios



The “Theorylight” smart lamps are embedded with motion sensor and daylight sensor, using a “Theorylight” remote control, users can set grouping and parameters very fast and convenient. By adopting the standard ZigBee technology, “Theorylight” has the inborn advantages like long transmission distance, multiple channels and mesh network.



Users can set the sensor parameters of one group or individual lamp with one button, and change lamp brightness. In one group, the motion sensors work together to control these grouped lamps, and the daylight sensors control the individual lamps on/off according to the ambient brightness.

The Theorylight series include panel, linear light, tri-proof light, highbay, LED tube. This kind of smart lamps can be used for industrial and commercial areas, example offices, warehouses, factories, parking and others.